EQ's Index: Dec. '67 to Dec. '68

Subjects

This is a comprehensive subject reference to EQ, exclusive of new products, except where a product received more than routine attention. Date of the issue (e.g., 3/68 means March, 1968) and page number are given.

A

ABLATION, 12/68, p. 22.
ACCELEROMETER (See TRANSDUCER).

C

CALIBRATION
—**Accelerometer,** 9/68, p. 11.
—**Transducer:** pressure, 6/68, p. 24; vibration, 9/68, p. 11.
CALIBRATOR
—**Complex periodic wave,** 6/68, p. 24.
—**Pistonphone,** 6/68, p. 24.
—**Vibration transducer,** 9/68, p. 11.
CARBON ARC
—**1,200-ampere source,** 9/68, p. 24.
CHAMBERS (See SIMULATOR).
CLEAN ROOM
—**Contamination control monograph,** 12/68, p. 33.
CONFERENCES (See SYMPOSIUMS).
CONTROLLER, TEMPERATURE
—**Operating characteristics,** 12/68, p. 3.
CORROSION
—**Military weapon systems,** 12/68, p. 23.
CRYOGENICS
—**Estimating system cooldown time,** 9/68, p. 8.
—**Symposium** (See SYMPOSIUMS).

D

DECIBEL SCALING
—**vibration testing,** 12/68, p. 18.
DESIGN (Equipment)
—**Accelerometers, shock and vibration,** 9/68, p. 16.
—**Carbon arc, high-current for solar radiation simulator,** 9/68, p. 24.
—**Closed-system toroidal electro gasdynamic facility,** 12/68, p. 12.
—**Shaker, ceramic armature and air bearings,** 9/68, p. 11.

E

ENVIRONMENT
—**Role in consumer product testing,** 6/68, p. 6.
ENVIRONMENTAL
—**Education,** 3/68, pp. 6, 7, 13; pp. 3, 8; 9/68, p. 8; 12/68, pp. 4, 23, 35.
—**Equipment manufacturers:** general, 3/68, pp. 4, 17, 34.
—**Facilities** (See FACILITIES).
—**Literature,** 3/68, p. 47; 6/68, p. 35; 9/68, p. 36; 12/68, p. 33.
—**Products,** 3/68, pp. 40, 48; 6/68, pp. 29, 33; 9/68, pp. 26, 34; 12/68, pp. 24, 31. (Also see PRODUCT GUIDES).
—**Simulation** (See SEMINARS).
—**Specifications** (See SPECIFICATIONS).
—**Trade show** (See SHOWS).
EQ COLUMNS
—**Dynamics Overview,** 6/68, p. 8; 9/68, p. 3; 12/68, p. 18.
—**Gradients,** 12/68, p. 3.
—**Post Scripts,** 3/68, p. 4; 6/68, p. 3, 9/68, p. 5; 12/68, p. 4.
EXPLOSION (See SIMULATOR)

F

FACILITIES
—**Electro gasdynamic facility, closed-system toroidal,** 12/68, p. 12.
—**Environmental test:** commercial, 6/68, pp. 7, 12, 13; 9/68, p. 37; 12/68, p. 35; governmental, 12/68, pp. 4, 7; hazardous material, 6/68, p. 7; 12/68, p. 35.
—**LH_2 flow system,** 9/68, p. 37.
—**Rocket test firing,** 12/68, pp. 7, 35.
—**Semiconductor test, high-volume,** 12/68, p. 35.
—**Space simulator (Mark I),** 12/68, p. 7.
—**Thermal vacuum test,** 3/68, p. 7.
—**Wind tunnel:** high-enthalpy arc, 12/68, p. 22; Mach 18 to 26, 12/68, p. 7.

H

HEAT EXCHANGER
—**Mark I space simulator,** 12/68, p. 8.
—**Multi-purpose shroud,** 12/68, p. 35.
—**Withstands 5,000°F,** 12/68, p. 7.
HUMIDITY
—**Simulation** (See SIMULATOR).
—**Test standards, international,** 3/68, p. 4.

I

INSTITUTE OF ENVIRONMENTAL SCIENCES, 3/68, pp. 6, 13, 16, 17; 6/68, pp. 6, 12; 9/68, pp. 3, 5, 6, 7; 12/68, p. 6.

M

MEASUREMENT
—**Automobile accident data,** 9/68, p. 37.
—**Shock** 9/68, p. 16.
—**Solar constant,** 12/68, p. 6.
—**Symposium** (See SYMPOSIUMS).
—**Temperature,** 12/68, p. 3.
—**Vibration:** general, 9/68, p. 16; instruments, linear vs. db, 12/68, p. 18.
MEETINGS (See SYMPOSIUMS).
METROLOGY (See SYMPOSIUMS).
MISSILE
—**Condor,** 12/68, p. 35.
—**Minuteman II,** 12/68, p. 7.
—**Saturn,** 9/68, p. 3.

N

NATIONAL BUREAU OF STANDARDS
—**Cryogenic systems, cooldown time estimation,** 9/68, p. 8.
—**Shaker, ceramic armature and air bearings,** 9/68, p. 11.

P

PICKUP (See TRANSDUCER).
PISTONPHONE
—**Typical drives,** 6/68, p. 24.
PRODUCT GUIDES
—**Humidity chambers:** general application, 6/68, p. 15; special application, 6/68, p. 20.
—**Space simulators,** 12/68, p. 14.
—**Temperature-altitude chambers,** 9/68, p. 13.
—**Temperature chambers:** high, 3/68, p. 29; high-low, 3/68, p. 21; low, 3/68, p. 19.

Q

QUALITY CONTROL
—**Consumer quality problems,** 6/68, p. 6.

R

REFRIGERATION
—**Cascade vs. CO_2,** 3/68, p. 36; 6/68, p. 5.
RELIABILITY
—**Consumer-type products,** 9/68, p. 7.
—**Symposium** (See SYMPOSIUMS).
—**Zero defects,** 12/68, p. 4.

S

SALT FOG (See SIMULATOR).
SEMINAR
—**Environmental simulation,** 3/68, p. 13; 12/68, p. 4.
—**Vibration and shock testing,** 12/68, p. 36.
SHAKER (See SIMULATOR & VIBRATION).
SHOCK
—**Aircraft isolator, "floating-floor",** 12/68, p. 23.
—**Film, "Response to Mechanical Shock",** 12/68, p. 33.
—**Measurements: automobile accident,** 9/68, p. 37; transducer characteristics, 9/68, p. 16.
—**Simulation, realistic,** 6/68, p. 3. (Also see SIMULATOR).
—**Symposium** (See SYMPOSIUMS).
SHOWS
—**AVS,** 9/68, p. 6.
—**IEEE,** 3/68, p. 12; 12/68, p. 6.
—**IES,** 3/68, pp. 13, 16, 17; 6/68, p. 12; 9/68, p. 7; 12/68, p. 6.
—**TMS,** 12/68, p. 6.
—**Tokyo Environmental Trade Fair,** 3/68, p. 6; 9/68, p. 6; 12/68, p. 11.
SIMULATOR
—**Earthquake,** 9/68, p. 8.
—**Explosion,** 9/68, p. 38.
—**Humidity,** 6/68, p. 15. (See also Temperature-Humidity).
—**Martian atmosphere,** 12/68, p. 5.
—**Orbital,** 3/68, p. 7; 12/68, p. 35.
—**Re-entry condition:** burn-up temperature, 12/68, p. 22; general, 12/68, p. 7; super-orbital velocity, 12/68, p. 12.
—**Salt fog,** 6/68, p. 13.
—**Shock, two-directional,** 3/68, p. 17.
—**Solar radiation,** 3/68, p. 15; 6/68, pp. 12, 13, 35; 9/68, pp. 6, 25.
—**Space,** 12/68, pp. 7, 14, 35.
—**Sunlight, sea-level,** 6/68, p. 35.
Temperature: AGREE, 6/68, p. 12; 9/68, p. 38; altitude, 9/68, p. 13; high, 3/68, p. 29; high-low, 3/68, pp. 21, 36; humidity, 3/68, pp. 17, 18; 6/68, pp. 12, 15; low, 3/68, pp. 19, 36, 50.
—**Thermal vacuum** (See Orbital).
—**Vibration:** electrodynamic, 3/68, p. 50; 6/68, p. 13; 9/68, p. 3; electrohydraulic, 9/68, p. 3; mechanical, 6/68, p. 13; 9/68, p. 38; thrusters, 9/68, p. 3.
SOLAR RADIATION
—**Carbon arc, 1,200-ampere source,** 9/68, p. 24.
—**Simulation** (See SIMULATOR).
—**Solar constant re-evaluated,** 12/68, p. 6.
SPACE
—**Re-entry,** super-orbital velocity, 12/68, p. 12.
—**Simulation** (See SIMULATOR).
—**Specifications** (See SPECIFICATIONS).
—**Symposium** (See SYMPOSIUMS).
SPACE VEHICLE
—**Future operational,** 12/68, p. 12.
SPECIFICATIONS
—**Realistic,** 6/68, p. 3.
—**Space simulation,** 12/68, p. 11.
STANDARDS
—**Air moving devices,** 12/68, p. 33.
—**Conference** (See SYMPOSIUMS).
—**International:** general, 3/68, p. 5; humidity, 3/68, p. 4.
—**Solar spectrum of air mass,** 12/68, p. 6.
STELLARATOR, 12/68, p. 12.
SYMPOSIUMS
—**Aerospace sciences,** 12/68, p. 6.
—**Consumer goods,** 6/68, p. 6.
—**Corrosion,** 12/68, p. 23.
—**Cryogenic,** 6/68 ,p. 6.
—**Environmental effects on aircraft & propulsion systems,** 9/68, p. 7.
—**General Conference on Weights and Measures, Paris,** 12/68, p. 4.
—**International Electrotechnical Commission, London,** 3/68, p. 4.
—**Mechanical vibration,** 12/68, p. 6.
—**Quality control,** 6/68, p. 6.
—**Reliability and maintainability,** 6/68, p. 36; 9/68, p. 7; 12/68, p. 6.
—**Shock and vibration,** 3/68, p. 16; 6/68, p. 3; 9/68, pp. 3, 6.
—**Space simulation,** 3/68, pp. 6, 12; 9/68, p. 6; 12/68, p. 6.
—**Standards laboratories,** 3/68, p. 7.
—**Temperature Measurement,** 12/68, p. 6.
—**Transducer developments,** 12/68, p. 6.
—**Vacuum,** 9/68, p. 6.

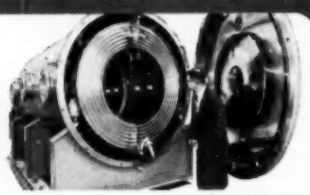
T

TECHNICAL SOCIETIES
—**AIAA,** 3/68, p. 6; 6/68, p. 36; 9/68, p. 6; 12/68, p. 6.
—**ASME,** 6/68, p. 36; 12/68, p. 6.
—**ASNT,** 12/68, p. 6.
—**ASQC,** 6/68, p. 6; 9/68, p. 7; 12/68, p. 6.
—**Association Francaise pour le Developpement des Sciences et Techniques de l'Environnement,** 9/68, p. 6.
—**ASTM,** 3/68, p. 6; 9/68, p. 6; 12/68, p. 6.
—**AVS,** 9/68, p. 6.
—**Cryogenic Society of America,** 6/68, p. 6.
—**IEEE,** 3/68, p. 12; 6/68, p. 3; 9/68, p. 7; 12/68, p. 6.
—**IES** (See INSTITUTE OF ENVIRONMENTAL SCIENCES).

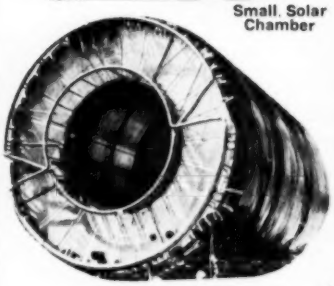
CRYODEAN

THE COLD BLOODED HEAT TRANSFER PANEL

Keeping test objects cold or vacuum levels high is the job for CRYODEAN®. The special stainless steel panel from Dean Products, Inc., is lightweight by design. CRYODEAN is ruthless at maintaining temperatures or vacuum levels in Aerospace, Industrial Freeze Drying, Food Processing and Laboratory applications. Can CRYODEAN tame your requirements?



Small Solar Chamber



Ultra-High Altitude Testing Shroud

5000°F radiation diffusion duct

Sun Collimator

Freeze Drying Chamber

For complete details, please call or write:

DEAN PRODUCTS, INC.
1048 Dean Street
Brooklyn, New York 11238
(212) 789-4444

More than 34 years skill in manufacturing embossed and welded heat transfer panels.

Circle Service Card Key #113

—**SAE,** 6/68, p. 36; 12/68, p. 6.
—**Society for Non-Destructive Testing,** 9/68, p. 7.
—**Society of Aerospace Material & Process Engineers,** 12/68, p. 23.
—**Society of Environmental Engineers,** 6/68, p. 3.
—**TMS,** 12/68, p. 6.

TEMPERATURE
—**Controller characteristics,** 12/68, p. 3.
—**Heat exchanger:** 5,000°F, 12/68, p. 7; Mark I space simulator, 12/68, p. 8.
—**High-low, cascade vs. CO_2,** 3/68, p. 36; 6/68, p. 5.
—**Re-entry burn-up,** 12/68, p. 22.
—**Simulation** (See SIMULATOR).
—**Testing, true temperature vs. condensation threshold,** 12/68, p. 12.

TESTING
—**Heat generating devices,** 6/68, p. 5.
—**Shock and vibration.** 6/68, p. 3.
—**True temperature vs. condensation threshold,** 12/68, p. 12.
—**With cascade and CO_2 chambers,** 3/68, p. 36; 6/68, p. 5.

THRUSTER (See SIMULATOR & VIBRATION).

TRANSDUCER
—**Accelerometer:** piezoelectric, 9/68, p. 16; piezoresistive, 9/68, p. 16.
—**Calibrator,** 9/68, p. 11.
—**Conditioning systems,** 9/68, p. 16.
—**Developments,** 9/68, p. 16.
—**Pressure, dynamic calibration,** 6/68, p. 24.
—**Symposium** (See SYMPOSIUMS).

V

VACUUM
—**Symposium** (See SYMPOSIUMS).
—**Thermal:** flight temperature controls testing, 3/68, p. 7; simulation (See SIMULATOR).

VIBRATION
—**Aircraft isolator, "Floating-floor",** 12/68, p. 23.
—**Dynamic stress levels on railroad axles,** 3/68, p. 50.
—**Fixture, massive platform concept,** 9/68, p. 3.
—**Foreign particle detector,** 12/68, p. 6.
—**Measurements:** db, 12/68, p. 18; transducer characteristics, 9/68, p. 16.
—**Seminar** (See SEMINARS).
—**Shaker:** multiple, 9/68, p. 3; transducer calibrator, 9/68, p. 11.
—**Simulation, realistic,** 6/68, p. 3. (See also SIMULATOR).
—**Symposium** (See SYMPOSIUMS).

W

WIND TUNNEL
—**High enthalpy arc,** 12/68, p. 22.
—**High speed, Mach 18 to 26,** 12/68, p. 7.

Titles

This index lists signed and unsigned articles published in EQ from Dec., 1967, through Dec., 1968. Authors' company affiliations generally are as of the time of writing. Date of issue and page number are given.

A

AEDC's Mark I and Other Facilities Upgraded for More Stringent Testing, 3/68, p. 7.

Aerojet Dedicates $4.4-Million OMS, 12/68, p. 35.

Alarm for U.S. Environmental Equipment Manufacturers, J. K. Scott, Chief U. S. Delegate to the International Electrotechnical Commission, 3/68, p. 4.

A 1,200-Ampere Source for a Carbon-Arc Solar Radiation Simulator, Stephen Prigozy, Genarco, Inc., 9/68, p. 24.

C

Ceramic Armature, Air Bearings for a Shaker, 9/68, p. 11.

Continuing Search for the Optimum Transducer, Carl Salan, Endevco Corporation, 9/68, p. 16.

D

Decibel Scaling Has a Place in Measurements of Vibration, Wayne Tustin, Tustin Institute of Technology, Inc., 12/68, p. 18.

Dynamic Calibration of Pressure Transducers, David N. Keast, Bolt Beranek and Newman, Inc., 6/68, p. 24.

G

Guide to General and Special Humidity Chambers, 6/68, p. 15.

Guide to Space Simulators, 12/68, p. 14.

Guide to Standard Temperature Chambers—Low, High-Low, High, 3/68, p. 19.

Guide to Temperature-Altitude Chambers, 9/68, p. 13.

I

IES Offers 'New Horizons' to The Environment, 3/68, p. 13.

IES Weighs Possibility of Consumer-Goods Symposium, 6/68, p. 6.

In Vibration Testing, Multiple May Indeed Be Better Than One, Wayne Tustin, Tustin Institute of Technology, Inc., 9/68, p. 3.

R

Refrigeration Chambers: Cascade or Co_2?, John A. Meditz, Associated Testing Laboratories, Inc., 3/68, p. 36.

S

Sandia Operating HEAT Facility for SNAP Re-entry Environments, 12/68, p. 22.

T

Testing's Not for Kidding, John P. Salter, Royal Armament Research and Development Establishment, 6/68, p. 3.

Things Are Not Always What They Seem to Be, George Wheeler, Tenney Engineering, Inc., 12/65, p. 3.

Think You Know All the Answers? Wayne Tustin, Tustin Institute of Technology, Inc., 6/68, p. 8.

To Simulate Re-entry at Super-Orbital Velocity: A Closed-System Toroidal EGDF, Martin Gerloff, McDonnell-Douglas Corp., 12/68, p. 12.

Authors

B

Beatty, Louis G., "Letter to the Editor," 3/68, p. 11.

G

Gerloff, Martin, "To Simulate Re-entry at Super-Orbital Velocity: A Closed-System Toroidal EGDF," 12/68, p. 12.

K

Keast, David N., "Dynamic Calibration of Pressure Transducers," 6/68, p. 24.

M

Meditz, John A., "Refrigeration Chambers: Cascade or CO_2?" 3/68, p. 36.

P

Prigozy, Stephen, "The Race to the Sun: A 1,200-Ampere Source for a Carbon-Arc Solar Radiation Simulator," 9/68, p. 24.

S

Salan Carl, "The Continuing Search for the Optimum Transducer," 9/68, p. 16.

Salter, John P., "Testing's Not for Kidding," 6/68, p. 3.

Scott, J. K., "Alarm for U.S. Environmental Equipment Manufacturers," 3/68, p. 4.

T

Tustin, Wayne, "Decibel Scaling Has So a Place in Measurements of Vibration," 12/68, p. 18.

—"In Vibration Testing, Multiple May Indeed Be Better Than One," 9/68, p. 3.

—"Think You Know All the Answers? So Try Those on Your Boss," 6/68, p. 8.

Wheeler, George, "Things Are Not Always What They Seem to Be," 12/68, p. 3.

Woolley, G. K., "Letter to the Editor," 6/68, p. 5.